

Commuters 5:15 Club Will Hold New Year's Dance

Tickets for Masquerade Ball and
Tech Cabin Trip Are
on Sale

NEW CLUBROOM TO OPEN

While most Technology students are home for the holiday, the Commuters 5:15 Club will hold its New Year's party. Yesterday, a limited number of tickets for the Masquerade Ball went on sale in the main lobby, at \$2 per couple. Glenn Fell's orchestra will provide the music for the dancing which will be in the North Hall and Faculty Dining Room of Walker Memorial.

Before the dance, which starts at 12 o'clock, there will be a scavenger hunt which will send the early arrivals searching about the city. A prize will be awarded to the winners.

Will Inspect New Clubroom

Beside dancing in the North Hall and the Faculty Dining Room, which will be decorated in a manner similar to the main hall at the Musical Clubs Christmas dance last Friday, the guests will have an opportunity to inspect the new club rooms of the Commuters' Association.

These rooms are rapidly approaching completion in the basement of Walker. The rear room will be fitted with ten tables for commuters to eat their lunches.

Two Day Trip to Tech Cabin

The outer room will contain a central reading table surrounded by chairs, and a conference table surrounded by lounging chairs. Around the sides of the room will be several study desks for commuters to study during school hours. The rooms will be finished in light green.

Beside the tickets to the ball, tickets for the stag trip to Tech Cabin will be sold this week. The price will be \$1 to cover meal costs for the two day trip, December 29 and 30. It is limited to thirty persons.

C. A. HERTER WILL ADDRESS FACULTY

At a luncheon meeting of the Faculty Club at twelve o'clock this noon in North Hall, Walker Memorial, Christian A. Herter, A. B., will lecture on the subject of "The University and Some Current Governmental Problems."

Mr. Herter was formerly an assistant to ex-president Herbert Hoover, who was then Secretary of Commerce. He has also been associated with several American Commissions abroad especially in Berlin and Paris.

S. A. E. WILL RUN FOUR DAY TOUR

Automobilists to Visit Many
Large Industrial Plants

The Society of Automotive Engineers will conduct an extensive trip during the mid-year vacation for the purpose of inspecting several large manufacturing plants between Boston and New York, according to an announcement made yesterday by David Ingalls, '34, president of the society. The trip, which will begin on January 29, will probably take about 4 days, during which time it is expected that 8 or 10 of these factories will be visited. The party will stay over in hotels along the way.

Will Test Automobiles

Starting January 13, the society will make a series of tests on automobiles. These will consist essentially of road trials to determine horse power, acceleration, etc. They will be under the supervision of Professor Dean A. Fales, of the department of mechanical engineering. It is planned to conduct the experiments on privately-owned cars as well as the new 1934 stock models.

The committee in charge of the tests consists of the following members: Richard D. Purcell, '35; John A. Bradner, '35; Richard U. Bryant, '36; Irving N. Kelsey, '36; and Winthrop J. Scott, '36.

Next Regular Issue of THE TECH Appears Jan. 5

Today's issue will be the last that THE TECH will publish this year, since no classes will be held on Friday. The next regular issue will be on the stands on Friday, January 5, 1934.

MICROBES RIDE ON SCIENTIFIC MERRY-GO-ROUND

Device for Facilitating the
Study of Microbes to be
Exhibited

A merry-go-round for microbes in which the tiny passengers, instead of reaching for a ring, have their pictures taken every time they go by a camera is the latest device in the life of the microbe world. The merry-go-round is no larger than a butter plate, and whirls on a cushion of air at speeds up to 20,000 revolutions per minute. The camera also is so small that it is built into a microscope.

Perfected by Professor E. Newton Harvey of the department of biology at Princeton University and Alfred Loomis of Tuxedo Park, New Jersey, this scientific carousel will be displayed in action at the Science Exhibition of the American Association for the Advancement of Science at Memorial Hall, Harvard, December 27-30, at which time bacteria and other minute living things will be taken "for a ride." Professor Harvey will show moving pictures taken with this device which shows what happens to the germ cells of marine animals under such rough handling.

The merry-go-round of course was not built for the amusement of its passengers, but is another of the myriad of devices which have been developed by scientists to aid in the search for the elusive secret of the cell. The scientists who are using it in their search have given it the high

Machine Devised to Park Speech

Latest Development of Bell
Telephone Engineers
on Exhibit

A machine which will park your voice in much the same manner that you park your car has been recently devised by speech experts of the Bell Telephone Laboratories. The device will be displayed in action at the Memorial Hall, Harvard, next week as part of the Science Exhibition of the American Association for the Advancement of Science which will hold its 93rd annual meeting in Cambridge from December 27 to 30, with more than 3,000 in attendance.

The "parking space" consists of a thin steel ribbon which flows along in plain sight at the speed of about one foot per second. Unlike any other form of recording speech, it is not necessary to process the ribbon or treat it in any way. The voice is impressed upon it directly by means of two small magnets which produce a varying magnetism of the steel tape corresponding to the sound waves in the speech.

Any time that the words parked are wanted for transmission the ribbon is run through a second set of magnets, and the speech reproduced in the form of an electric current. The device has the further advantage that the parking space may be used over and over again. As soon as one speech has been cleared off another can be placed on the same tape, while any other form of recording usually spoils the reproducing medium for further use.

sounding title of the biological super-centrifuge. This apparatus is one of hundreds of scientific exhibits which are now being prepared for the meeting of the 3,000 scientists who will come to Cambridge next week to report the most recent advances in almost every branch of science.

Freshmen Utilize Campus Walks for Skating Rink

Not much attention was aroused when a freshman wrote an open forum letter for THE TECH making a plea for a swimming pool at the Institute. So the freshmen evidently said to themselves, "If we don't get a swimming pool and then we'll have a skating rink." On last Friday evening at about eleven o'clock a group of eight or ten of the class of '37 were observed wearing ice skates, skating around the walks and roadways of the Institute campus.

DEBATING SOCIETY PICKS CURRICULUM TOPIC FOR DEBATE

Discussion on Advisability of
Offering More Cultural
Courses Is Slated

At the regular meeting of the Debating Society, to be held tomorrow in Room 2-330, at 5 o'clock, a discussion will be conducted on the topic: "Resolved: that more courses of a cultural nature should be required for a degree at Technology."

Prepared speeches will be delivered on each side of the question, and then the subject will be open to general discussion from the floor. Joseph L. Hewes, '37, will speak on the affirmative side, while Ross E. Black, '37, will uphold the negative. Robert E. Katz, '37, is chairman.

At a meeting held last week, the following officers were elected to serve for the remainder of the school year: Leonard A. Seder, '37, president; Paul A. Vogel, '37, vice-president-manager; Lawrence R. Steinhart, '37, secretary-treasurer; Joseph L. Hewes, '37; and Robert E. Katz, '37, members at-large of the executive committee.

Discover Method To Smash Atoms More Effectively

Highly Efficient Proton Source
Invented by Drs. Luhr
and Lamar

AIDS RESEARCH PROGRAM

Discovery of a new and prolific source of protons, which will double the effective value of atom-smashing apparatus, was announced at the Eastman Research Laboratories of the Institute yesterday. The method, which is simple and convenient, and increases the yield of protons at least nine fold over other known sources, was developed by Dr. Edward S. Lamar and Dr. Overton Luhr of the department of physics. Protons are the positively charged atoms of hydrogen, and are the most effective projectiles known to science for bombarding the nuclei of other atoms.

Increase Proton Yield

The new method obtains protons by passing an electric arc through hydrogen at low pressure between an incandescent filament and a neighboring metal electrode. Such an arc would ordinarily produce ions of which about ten per cent would be protons and the remainder molecular ions. The protons, which are single atoms, are much more effective than the ionized molecules, which consist of two atoms. The two physicists have succeeded in obtaining a proton yield of approximately ninety per cent by surrounding the arc with a third electrode maintained at a negative potential of a few hundred volts. Dr. Lamar and Dr. Luhr are hopeful of raising the yield still higher.

Part of Comprehensive Program

This work is part of the same comprehensive program of research in which the 10,000,000 volt Van de Graaff direct current generator is to be used. It will aid in the study of various chemical elements, especially the possibility of their transmutation into other chemical elements, and the stores of atomic energy now unavailable.

The work of Dr. Lamar and Dr. Luhr is a natural development of a series of investigations upon which Dr. Lamar and President Karl T. Compton of the Institute have collaborated during the past four years. These investigations led to the discovery that when the positively charged ions in an ionized gas are drawn to an electrode, they retain a fraction of their original momentum after giving up their charge to the electrode, and therefore bounce back into the gas with considerable velocities. By charging the negative electrode highly, the positive ions strike back into the gas as neutral atoms with energies corresponding to tem-

(Continued on Page 3)

CONTROL OF WATER POWER DISCUSSED

Prof. K. C. Reynolds Presents
Popular Science Lecture

"The Control of Water Powers and How it is Studied in the Laboratory" was described by Professor Kenneth C. Reynolds in the first Society of Arts popular science lecture at the Institute Sunday afternoon in Room 10-250.

Professor Reynolds, who is in charge of Technology's river hydraulic laboratory described methods for the scientific control of water both as a source of power and as a destructive agency. He discussed recent studies of hydraulic problems by means of laboratory models of seawalls and waterways, and illustrated his remarks with experiments, slides, and motion pictures of great engineering projects.

Following the lecture, the river hydraulic laboratory of the Institute was opened for inspection of operating models of the Cape Cod Canal and the Winthrop seawall.

FIRST YEAR SCHEDULES

Serial No.	Subject	Year	Serial No.	Subject	Year	Serial No.	Subject	Year
MONDAY, JANUARY 22								
9 A. M.								
1.45	Structures	G	16.81	Automotive Eng.	4	8.541	Electromag. Theory	4
1.501	Structures, Adv.	G	16.911	Synoptic Meteor.	4	10.31	Chemical Eng.	4-G
1.811	San. Eng., Adv.	G	Ec31	Political Econ.	2-3-4	16.06	Airp. Struct., Adv.	G
2.20	Applied Mechanics	3		(2 hours)		THURSDAY, JANUARY 25		
2.42	Eng. Thermodyn.	3	Ec61	Business Law	3-4	9 A. M.		
3.31	Fire Assaying	3	M11	Calculus	1	1.32	Des. Harbor Works	G
4.411	Arch. History	1-2	M111	Calculus	1	1.731	Water Power Eng.	G
	(2 hours)		M12	Calculus	1	2.21	Applied Mechanics	3
4.461	European Civ.	3	TUESDAY, JANUARY 23			2.40	Eng. Thermodyn.	3
4.53	Arch. Humanities	3	1.30 P. M.			3.01	Mining Methods	3
	(2 hours)		1.41	Structures	4	4.61	City Planning	3
5.141	Anal. Chemistry	3	2.251	Mech. of Machines	4-G	5.01	Chemistry, Gen.	1
	(2 hours)		3.41, 3.411, 3.412	Metal	4	5.684	Phys. Chem., Elem.	3
5.741	Kin. Th. of Matter	G	4.471	European Civ.	4	6.801	Elec. Com., Prin.	3
6.561	Adv. Network Theory	G	6.03	Elec. Eng., Prin.	4	8.161	Optics	3-4
7.11	Anatomy & Hist.	3	7.80	Biochemistry	4	10.17	Ind. Chemistry	3
7.601	Health Education	G	8.21	Electronic Phen.	G	16.931	Dyn. Meteorology	G
7.701	Tech. of Food Sup.	3	16.21	Indust. Chemistry	4-G	Ec50	Accounting	3-4
8.01	Physics	1	10.70	Prin. of Combust.	G	M36	Adv. Calculus	3-G
8.012	Physics	1	13.54	Marine Arch.	4	THURSDAY, JANUARY 25		
8.32	Line Spectra	G	16.62	Aero. Lab.	4	1.30 P. M.		
8.50	Heat & Thermodyn.	3		(2 hours)		2.46	Heat Engineering	3-4
8.801	Electrochem., Prin.	3-4	M21	Calculus	2	2.71	Machine Design	4
10.79	Automotive Fuels	G	M22	Diff. Equations	2	3.03, 3.031	Econ. of Mining	4
MONDAY, JANUARY 22								
1.30 P. M.								
1.35	Roads & Pavements	4	WEDNESDAY, JANUARY 24			5.12	Quant. Analysis	2
	(2 hours)		9 A. M.			5.20	Chem. of Water & Sew.	3
1.64	Hydraulics	4	1.21	Ry. & High. Curves	3-4		(2 hours)	
1.70	Water Power Eng.	4	1.65	Th. Hyd. Models	G	6.221	Central Stations	4
3.43, 3.431, 3.432	Metal	3-4	2.05	Mech. of Machines	3	6.512	Elec. Circuits	G
4.641	Th. & Pr. City Plan	4		(2 hours)		6.541	Power Gen. Stations	G
6.09	Elec. Eng., Prin.	4	2.06	Mech. of Machines	G	8.03	Spec. Anal. of Met.	G
6.311	Elec. Com., Prin.	4	3.05	Elem. of Mining	3	8.461	Int. to Theo. Phys. I	4
6.511	Elec. Circuits	G	4.421	Arch. History	2-3	13.31	Ship Construction	2
7.58	Vital Statistics	4		(2 hours)		16.02	Aircraft Struct.	4
7.711	Tech. of Food Prod.	4	5.61	Physical Chem. I	3	FRIDAY, JANUARY 26		
8.471	Hist. Dev. of Physics	4		(Course V only)		9 A. M.		
10.28	Chemical Eng.	G	5.61	Physical Chem. I	3-4	2.15	Applied Mechanics	3
10.29	Chemical Eng.	4		(Course X only)		2.281	Adv. Mech. & Th. Elas.	G
13.56	Marine Eng.	4	5.611	Physical Chem. I	3-4	2.30	Materials of Eng.	3-4
13.68	Marine Eng.	4	6.01	Elec. Eng., Prin.	3		(2 hours)	
16.01	Aerodyn. Airpl. Des.	4	6.02	Elec. Eng., Prin.	3	5.41	Organic Chem. I	3
E21	Eng. & History	2	6.281	Prin. Wire Com.	G	5.51	Organic Chem. II	G
TUESDAY, JANUARY 23								
9 A. M.								
1.491	Soil Mechanics	G	6.521	Alt.-Cur. Mach.	4	6.651	Elec. Power Dist.	G
2.501	Refrigeration, Adv.	G	7.301	Bacteriology	3	M31	Diff. Equa. of Elec.	3
2.801	Automotive Eng.	G	10.52	Chemical Eng. II	G	FRIDAY, JANUARY 26		
4.481	European Civ.	5	13.01	Naval Arch.	3	1.30 P. M.		
5.71	Physical Chemistry	G	16.82	Int. Combust. Eng.	4	1.271	Transport. Eng.	4
5.76	Thermodyn. & Chem.	G	17.31	Building Constr.	3	1.63	Hydraulics	3-4
6.39	Eng. Electronics	3-4	M561	Funct. Comp. Vari.	G	1.75	Hyd. & San. Eng.	4
6.513	Elec. Circuits	G	WEDNESDAY, JANUARY 24			5.10	Qual. Analysis	2
6.591	Railroad Elec. Trac.	G	1.30 P. M.			6.44	Elec. Trans. & Cont.	4
8.213	Adv. Electronics	G	1.48	Foundations	4	7.01	Gen. Biology	2-3
8.82	Electrochemistry	4	2.43	Refrigeration	4	10.68	Corrosion	G
13.11	Th. Warship Design	3	3.13	Geophys. Pros., Elm.	4	13.50	Marine Eng.	2
	(2 hours)		6.841	Elec. Railways	4	16.901	Int. Meteorology	4
13.18	Th. Warship Design	G	6.851	Elec. Mach. Design	4		(2 hours)	
13.13T	Th. Warship Design	G	6.27	Illumination	4	17.21	Building Constr.	2
16.21	Airship Theory	4	6.58	Op. Circuit Anal.	G	SATURDAY, JANUARY 27		
			7.361	Ind. Microbiol.	4	9 A. M.		
			7.541	Pub. Health Admin.	1	10.25	Ind. Stoichiometry	G
			8.03	Physics	2			

A Record
of Continuous
News Service for
Over Fifty Years



Official News
Organ of the
Undergraduates
of M. I. T.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

MANAGING BOARD

W. R. Churchill, '34.....General Manager
W. L. Wise, Jr., '34.....Editor
C. S. Dadakis, '34.....Managing Editor
N. B. Krim, '34.....Business Manager

ASSOCIATE BOARD

H. H. Dow, '35.....News Editor
P. G. Herkart, '35.....Features Editor
W. M. Ray, '35.....Sports Editor
M. A. Porter, '35.....Make-up Editor
D. Stevens, Jr., '35.....Advertising Mgr.
J. D. Hossfeld, '35.....Bus. Serv. Mgr.
J. D. Loomis, '35.....Circulation Mgr.

EDITORIAL DEPARTMENT

Editorial Board

C. W. Finnigan, '34 W. H. Wood, '34
S. T. Martin, '34 D. V. Rubenstein, '34
P. Cohen, '34

Photographic Editor

W. H. Brockett, '35

Copy Writers

F. S. Peterson, '36 A. E. Hittl, '36
R. J. Marks, '36 R. L. Odiorne, '36
A. V. Mackro, '36 L. C. Young, '36

Sports Writer

W. H. Stockmayer, '35

Features Writers

P. H. Ware, '35 W. G. Craigin, '35
R. D. Morrison, Jr., '36

Photographic Staff

J. Gratz, '36 H. N. Tichnor, '36

Reporters

F. Baggerman, '37 R. E. Katz, '37
N. G. Bull, '36 F. Lessard, '36
J. G. Bryan, '37 N. F. Murphy, '37
J. H. Cook, '36 W. Penn, '37
W. M. Ready, '37 J. I. Hamilton, '36
P. Johnson, '36 C. J. Rife, '36

In Charge of this Issue: Richard L. Odiorne, '36

OFFICES OF THE TECH
News and Editorial—Room 3, Walker
Memorial, Cambridge, Mass.
Telephone. University 7029
Business—Room 302, Walker
Telephone, University 7415
Printer's Telephone, Liberty 3355

SUBSCRIPTION, \$1.50 Per Year

Published every Tues. and Fri.
during the College year, except
during College vacation
Entered as Second Class Matter at the
Boston Post Office
Member Eastern Intercollegiate
Newspaper Association

BUSINESS SERVICE DEPT.

B. B. Dayton, '36 R. G. Thompson, '36
A. Loomis, '37 P. Vogel, '37
W. T. Blake, '37 P. T. de Florez, '37

CIRCULATION DEPARTMENT

R. Driscoll, '36
R. S. Childs, '37 G. B. Wilkes, Jr., '37

ADVERTISING DEPARTMENT

Associate Advertising Manager
J. F. Notman, '35
I. S. Underhill, '36 R. Reichart, '36
R. C. Low, '37 J. Loder, '37
M. M. Waxman, '37 C. R. Kahn, '37
E. Koontz, '36 O. A. Fick, '36
W. W. Landsiedel, '37

L. Seder, '37 C. W. Smith, '35
J. Smedile, '37 D. Tower, '37
R. Vincens, '37 H. Weiss, '37
A. M. York, '37 A. A. Carota, '36
C. C. Dubbs, '35 D. J. Hill, '37
E. C. Wirtz, Jr., '37

THE REVIVAL OF RELIGION

HE WAS a young fellow, married, out of a job, and worried. When even his part time job was definitely gone he found he couldn't sleep well. After tossing about restlessly for the better part of one night he arose at three o'clock and for the first time in many months, prayed. The next day he obtained employment.

A good story? We can vouch for this case. But that isn't the point. We are not illustrating the efficiency of prayer but that habit most people have of appealing to a God only when all other means fail.

It was an old warrior who said, "Put your faith in your sword and the Lord," thereby bluntly revealing the feelings of the great mass of people towards religion. First the sword, and when that fails, may the Lord help us.

Persecuted races have always clung tenaciously to their creed. The poor, the oppressed are as a rule the most devoted to their particular God. When times are good, when life is relatively easy, the tendency is to push thoughts of a supernatural power into the background. But when all ordinary efforts fail to give security, when the individual is not so sure of his ability to maintain his home and family, he is more apt to call on some greater power for help. And so attendance at churches has stopped declining, these past few years, and in some cases has actually risen.

NOT IRREVOCABLE

WHAT kind of thinking determines whether it shall be Electrical Engineering, Biology, Architecture, Mathematics, or some other one of the Institute's eighteen courses for undergraduates? How does a Technology man choose his course?

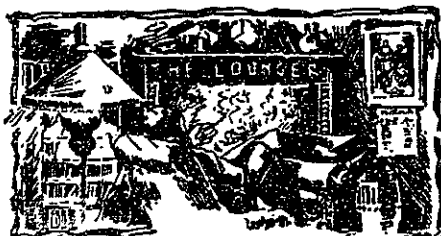
Largely by association; a fellow monkeys with the electric wiring of his home, splicing wires, installing sockets, repairing his mother's vacuum cleaner when a wire becomes disconnected. Fond parents applaud, telling the boy what a good electrician he is. Later comes the problem of an occupation. A brilliant idea! "Ah, ha," says the boy, "I'll go to the Institute and become a great electrical engineer."

Or the thinking may have been of a slightly more mature nature. The boy may say, "I want to make a million dollars," and someone tells him there is big money in Mining Engineering. Therewith he sets his heart on Mining Engineering.

There are some freshmen who use intelligence in deciding which course they should enter. They consider such abstruse questions as what kinds of abilities are needed for a specific field, and the extent to which they possess these abilities. But such freshmen are in the minority. No wonder so many students are misfits in their courses.

And what can the misfits do? An Aldred lecturer tells him that a man can very easily change his vocation, up to a certain age. So it appears that he can get into the kind of work he likes, after leaving school. The training at Technology will be useful to them anyhow, for they had to learn to think before being allowed to graduate. The Aldred lecturer is probably correct, but how much better it would be if the misfit were to get into the proper course right from the start of his professional career.

Incidentally, vocational tests are available, and some have been given here at the Institute to a small portion of the freshman class. Statistical evidence shows that they are effective, although any given individual cannot rely upon their results completely. Why are not these tests given to the entire freshman class in an attempt to place them professionally from the start.



The Secretary Obeys

We reclined at ease in the luxurious warmth and golden glory of the afternoon sun, streaming through the windows of the headquarters of a certain department, which it is not convenient to mention.

Professor S——, paused in the door on his way to class, then assembling. He gave terse orders to the secretary. "Tell Professor M—— I can't play squash with him this afternoon," he stated succinctly and vanished on his appointed pedagogical rounds.

We tingled drowsily as the secretary took the phone and executed the Master's order, reflecting that the brusqueness of modern affairs lent to them an importance, a conciseness, and a precision of conception, quite lacking in the days before a Department of Business and Engineering Administration babbled statistically and hysterically of Economic Significance.

"Give me Professor M——," said the secretary, and, "Hello?" Oh hello Gladys, how are you, oh I'm fine and I couldn't see you last night—the most awful thing—the dinner positively smoked and just filled the house with the most awful smell—and then you know who dropped in and you know what that means, yes she was in the most awful stew, but she had the cutest little hat—oh dear, wouldn't you just know it?"

"Oh, by the way, Professor S—— won't be able to play squash with Professor M——. I guess there was something that came up he just didn't say but I'll play with him—not that I need it, of course—oh, a game, I thought it was something to eat, tee hee—well, g'by."

We arose with all the dignity we could muster, and departed quietly.

—O—

Sprechen Sie Deutsch

Copenhagen and the Danes will ever be associated in our minds with a tremendous capacity for beer, blondes and languages.

There is, in support of this last point, the experience of a friend of ours who was somewhere in the midst of the tortuous windings of this fair city and hailed a passing "Taxi" to transport her back to the boat.

The Danish driver smiled politely and said appropriate words to indicate, to the Danish ear, that he awaited further orders. The orders were given in English, but no register. He did not parlez vous francais either.

On the verge of impasse, our friend tried the last stand. "Sprechen Sie Deutsch?" "Ja, ja, Fräulein," he answered.

And that was that. It happened to be all the German she knew.

—O—

The Greater Simile

Always a connoisseur of the stray phrase, we have this direct from the source.

Our informer was, at the time, working in Altman's, and coming in from the lunch hour, she chanced to walk directly in front of two dear old things from the department of Ladies' Personal Effects.

One was talking to the other in quite avid tones, but our correspondent paid no particular attention until suddenly she heard:—"and she, why she was just a little bit of a thing, while he, he was voluptuous, just like a bull dog."

MAJOR SEARS WILL TALK TO OFFICERS

"Latest Developments in Ordnance Material" Is Topic

Major Robert Sears, ordnance officer of the first corps area, will deliver a talk to the Ordnance Reserve Officers at a supper meeting to be held Thursday, December 21, in Walker Memorial. His subject will be: "The Latest Developments in Ordnance Material."

The supper will be held at 6 o'clock

STOCK CONTEST SCORES LISTED

Easton, '36, High Scorer so Far; 6 More Months to Go

Having made a profit of nearly \$5,000, John A. Easton, Jr., '36, leads the Stock Contest of Corporation XV by a lead of more than \$1,000 over the next highest, Gerald M. Golden, '35. With the contest barely started, Easton and Golden have about six more months in which to try to beat the records of last year's leaders, Thomas Burton, '34, and David Cobb, '35, who finished with profits of \$7,818 and \$6,350 respectively.

Instead of offering a single prize of \$25, as was done last year, Corporation XV will give prizes of fifteen, ten, and five dollars to the three men showing the greatest profits when the contest ends.

Every member and associate member of Corporation XV is eligible to compete for one of the prizes by trading an imaginary \$10,000. For each sale or purchase, contestants should make out a transaction slip containing the name of buyer, date and hour of transaction, and the value of the stocks traded. Transaction slips must be placed in the box opposite Room 1-171 before three o'clock each day. A complete list of rules is posted opposite Room 1-171.

The following gains and losses have been made:

Gains: John A. Easton, Jr., '36, \$4,787.50; Gerald M. Golden, '35, \$3,452.88; Fred W. Vaughan, '34, \$1,933.62; Paul Nicewsky, '34, \$1,468.75; Walter Lane, '36, \$1,387.50; Emanuel Rapport, '36, \$706.25; Julian Rifkin, '36, \$700.00; Claxton Monroe, Jr., '36, \$345.00.

Losses: Robert G. Edwards, '36, \$9.37; Richard A. Denton, '36, \$81.00; Irving S. Underhill, '36, \$437.50.

AS WE SEE THE MOVIES

RKO KEITH BOSTON

On the stage a fair second rate showing of the "Student Prince," which is shown with scenery of the most bizarre lighting this reviewer has ever seen. We can recommend only the chorus whose renderings are the most acceptable part of the entire performance, but look out for the heroine.

"If I Were Free" is a decent picture, starring Clive Brook and Irene Dunn, portraying the effort of two unhappily married people to unite in their own love. It has many good scenes, not all of which tear the heartstrings in the approved manner. The net effect is a happy ending and shows quite effectively that love makes the world go around.

S. T. M.

under the west balcony of the Cafeteria, where a special table will be reserved for the officers. At the completion of the meal, the meeting will adjourn to the Faculty Dining Room, where the speaker will be heard and movies on "The Evolution of the Oil Industry" will be shown.

Capt. Hamilton, of the Boston Post of the Army Ordnance Association, will be in charge of the meeting. All Reserve Officers are cordially invited to attend.

GREYHOUND LINES

Special Low Round Trip Rates for
Christmas Vacation
TICKETS—INFORMATION
T.C.A. OFFICE EVERY DAY
12-2 P.M.

The First Church of Christ, Scientist

Sunday Services 10.45 a.m.

and 7.30 p.m.

Sunday school, 10.45 a.m.; Wednesday evening meeting, 7.30 p.m.; in the church edifice, Norway, Fairmount and St. Paul Streets. The church is open to visitors Wednesday and Friday from 10 a.m. until 5 p.m.
Reading Rooms—Free to the Public, 209 WASHINGTON ST., opp. State St., STATLER OFFICE BLDG., PARK SQ., 60 NORWAY ST., cor. Mass. Ave.
Authorized and approved literature on Christian Science may be read, borrowed or purchased.

Brother Alpha



Speaking of Christmas Spirit, Brother Alpha was in at Percy's asking about prices. They expect to have some Scotch at \$4.25 a bottle, but they refused to state how large the bottle is. Brother Alpha says the Quotations were coming in so fast over the ticker the boys couldn't write them up. He loaded up with a bunch of Black and White Futures, to deliver Jan. 1. If the market jumps the other way, Some of Us may have to go to work. Looks like now Prohibition is over we may have to Sublimate this thirst anyhow. Leave but a Kiss within the Cup, and so on,—try to mount, as it were, into the region where only Knowledge remains and the Will has vanished.

This Week in Walker

Fortunately this late Professor George Saintsbury his *Notes on a Cellar-Book* is just getting its First American Edition. There is the best Sublimator in the recent history of criticism. What we mean, a Critic, not just a Yale Man like Professor Phelps. He knew all the drinks there ever were. That of course, is Experience, but even by reading the book one can get Knowledge. Or one might take a look back at Pieixotto his *Bacchic Pilgrimage*, which came in here some time in March. He went around all over Europe, drinking the local wines *in situ* and *in vacuo*.

Of course, as they admitted at Percy's. Nature does abhor a Vacuum, but then a Few of Us are already sufficiently intoxicated with our own ideas, and we would prefer to read about Food. Say Louis Untermeyer his *Food and Drink* or the great treatise by William Caine his *Glutton's Mirror*. "A book," says Caine, "as gross and carnal as I could possibly make it. The reading of this book will stamp you as a Hog. It is a book to send at Christmas to the ultra-refined whom you desire to vex."

Brother Alpha got interested in this Herbert Ravenel Sass his *Look Back to Glory*. We put in the Ravenel because it probably means F. F. V. On account of Brother Alpha being a Past Grand Southerner, though of course not a Southern Gentleman, he couldn't see why the South should stand round and let this William Faulkner and this Erskine Caldwell throw mud all over everything. Why not draw the Bright Claymore, as it were, and spit them in the eye? Which this Herbert R. Sass has certainly done so, and in the nicest possible way. It is the world of Richard Acton, a human being though a Gentleman, killed at Fort Sumter lashing together the two sections of the flag pole where the flag had been shot away. If there was such a world, or even anything like it, then Some of Us feel maybe we were born too late.

For
**A TASTY LUNCHEON
BETWEEN CLASSES**
LYDIA LEE
136 MASS. AVE.

JORDAN MARSH COMPANY
STORE for MEN
A Separate Store in a Separate Building

**Gifts for him
Gifts for her
Gifts for them
Gifts for it**

**You can get
them all here**

For each and every member of your family, including the dog and the cat, or for all of them together in a lump, or for the household itself, and for your friends of every age and sex, you'll find Jordan Marsh Company crammed full of gifts ranging from a few nickels to a few thousands. If you have no confidence in yourself, ask for Personal Shopping Service, and your cares will melt away.

SWIMMERS WIN OVER BOWDOIN BY 45-32

Natators Take First Meet From Bowdoin, 45-32

Vaughan and Granberg Star for Engineers; Foster and Carson for Bowdoin

VAUGHAN WINS TWICE

Brilliant swimming by Captain Fred Vaughan and Bob Granberg, together with the strategy of Coach Untersee, provided the varsity natators with a victory, 45-32, in their first meet of the season against Bowdoin at the University Club pool last Saturday.

Coach Untersee's decision to swim Captain Vaughan in the 220 and relay proved a wise one, for his first in the short race, and his sterling performance on the second leg of the relay gave the Engineers the necessary lead to win the meet. Granberg provided the climax of the meet, when he edged George Carey, Bowdoin sprint star, in the last leg of the relay, to give Technology the relay and the meet.

The contest was close all the way, and fine work by Carson, Carey, and Garcelon almost won the meet for the Maine team. The results of the meet were as follows:

300-yard medley—Won by Bowdoin (Robert Foster, Robert Whitmore, George Carey); second, Tech (Radcliffe Edmonds, Bernard Vonnegat, Robert Granberg). Time—3m. 27s.

220-yard free style—Won by Fred Vaughan (T); second, Alonzo Garcelon (B); third, Bert Summers (T). Time—2m. 41s.

50-yard free style—Won by John Du Ross (T); second, Robert Carson (B); third, Oville Segreaves (B). Time—27 3-5s.

100-yard free style—Won by Robert Vaughan (T); second, Kenneth Finlayson (T); third, Alonzo Garcelon (B). Time—1m. 13 1-5s.

150-yard back stroke—Won by Robert Foster (B); second, Radcliffe Edmonds (T); third, Joseph McKenne (B). Time—2m.

220-yard breast stroke—Won by William Miller (T); second, John Beal (B); third, Bob Whitmore (B). Time—2m. 55 3-5s.

100-yard free style—Won by Robert Granberg (T); second, George Carey (B); third, Winton Brown (T). Time—1m. 1 3-5s.

300-yard relay (free style)—Won by Technology (John Du Ross, Fred Vaughan, Bert Summers, Robert Granberg); second, Bowdoin (Robert Carson, Donald Smith, Robert Foster, George Carey). Time—4m. 5 1-5s.

YEARLINGS LOSE TO HARVARD MERMEN

Dodge Stars With Two Firsts; Relay Team Also Wins

Although losing to the Crimson yearlings, 44½ to 20½, the Technology freshmen showed promise of strong material for next year's varsity in their meet with Harvard Saturday.

The individual star of the meet was Cleon Dodge of Technology, who won the 50 and 100 in fast time, and swam anchor man on the winning Beaver relay team. The climax of the meet was the setting of a new freshman 200 yard record by Jameson of Harvard, who covered the course in 2 minutes and 12 2-5 seconds. M. I. T.'s other first was in the 200 yard relay.

Beavers Win 1, Lose 7 in Week-end Sports

With three sports getting under way over the week-end, Technology won one and dropped seven. Harvard was the cause of their downfall in boxing and wrestling, in the opener of the season for both teams, and the freshmen lost to the first year Harvard swimmers while the same school's Jayvee basketball team defeated the Technology second team. The hockey team dropped its third straight in an overtime period while the swimmers nosed out Bowdoin by a close score.

The results:

Boxing
Harvard 7, M. I. T. 1.

Hockey
Brown 3, M. I. T. 2.

Swimming
Varsity: M. I. T. 45, Bowdoin 32.

Freshman: Harvard 46½, M. I. T. 20½.

Wrestling
Varsity: Harvard 21, M. I. T. 11.

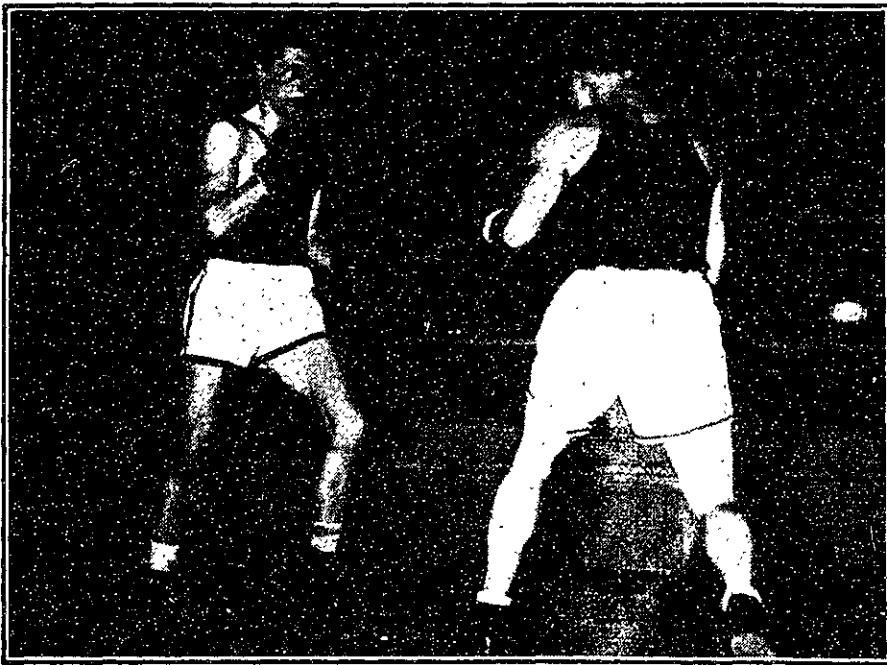
Freshmen: Harvard 26, M. I. T. 10.

Basketball
Junior varsity: Harvard 27, M. I. T. 13.

Freshman: Farmington Normal 40, M. I. T. 18.

Track
Freshmen-Juniors 57½, Sophomores-Seniors 37½.

Scene in Harvard-Technology Match



Captain Wetherill of Technology is shown in his 135-pound match with Ward of Harvard.

Boxers Defeated by Harvard Team

Carey Is Only Engineer Winner as Crimson Triumphs by 7-1 Score

Getting off to a rather unimpressive start, the Technology varsity boxing team bowed before the Harvard forces by a 7-1 score in the Hangar Gym last Friday evening before a good-sized crowd. The contest was far closer than the score indicates, for three of the decisions were rather unpopular with the crowd.

Johnny Carey, who captained the Engineers last year, was the lone winner for the losers, scoring a technical knockout over Cone in the 145-pound class. Captain Proctor Wetherill, Elliot Bradford, and Nick Lefthes, were the men who were victims of close decisions. Wetherill's defeat was especially surprising to the spectators, since he had almost scored a knockout over Ward, his opponent, in the second round.

In the other bouts Goldsmith, 115 pounds, Guaghan, 165 pounds, and Collins, 175 pounds, lost decisions, while Ray Jewett, Beaver heavyweight, who had recently been ill, proved no match for Brad Simmons of the Crimson, as yet undefeated in college ranks, and was knocked out in the second round.

NEW PROLIFIC SOURCE OF PROTONS DISCOVERED

(Continued from Page 1)

peratures of hundreds of thousands of degrees. Dr. Lamar and Dr. Luhr have utilized this method of raising the effective temperature of a portion of a gas enormously above the temperature of its surroundings.

Compton Explains Process

In explaining the significance of the process, President Compton said: "When hydrogen gas is ionized by an electrical discharge such as an arc, the positive ions consist principally of electrically charged molecules or pairs of atoms, rather than protons. The advantage of using protons rather than charged molecules for atomic transmutation lies in the fact that they are given greater velocities by the electric field which speeds them up for the bombardment process. 1,000,000 volts with a proton source will produce the same results as 2,000,000 volts with an ordinary molecular ion source. Therefore a source of hydrogen ions which produces protons has the same effect on the transmutation experiments as if the voltage for the bombardment were doubled. If, for example, the Van de Graaff generator is set to produce 7,000,000 volts, the same results with a proton source can be obtained as if an ordinary molecular ion source were used with 14,000,000 volts.

"The collaboration of Drs. Lamar and Luhr is an illustration of the advantage of cooperation between scientists in related fields of specialization.

(Continued on Page 4)

Brown Wins Over Engineer Team in Overtime, 3-2

Hart Stars for Bruins in Hard Fought Game; Sixteen Penalties Called

DEAR OF BRUINS INJURED

Bad luck continued to stalk the trail of the hockey team, Friday night when the Beavers were nosed out by Brown at Providence. The Bruins won by a score of 3 to 2 when Harrie Hart of Brown scored the winning tally in the overtime period. The game was a hard fought battle all the way, with both teams playing hard, fast hockey. The intense spirit with which the game was played is illustrated by the fact that sixteen penalties were called during the game.

Technology Takes Lead

The opening of the game was not featured by anything out of the ordinary, but as the game proceeded things began to liven and before the period had ended both teams were playing their hardest. With less than a minute to play in this session Paul Daley put the Engineers into the lead with a goal that almost took the Bruin goalie's pads off. Brown tied the score midway through the second period, and then went ahead early in third period. Things began to look dark for the Engineers, for the time was getting short and they were on the short end of the score. But as the period was coming to a close Herb Goodwin crashed through with a goal and knotted the score at 2-all.

The game ended in a tie and the teams prepared to go into an overtime period. Before the overtime session had gone far, Hart caged the puck and Brown went into the lead, 3 to 2.

One casualty occurred in the game when Dear of Brown was injured in a fall near the Technology goal. The injury was not considered serious until he collapsed and it was necessary to carry him off the rink.

Domestic and Imported Skis

Bindings, Poles, Waxes, Clothing, Boots, etc. Experienced skiers will aid you in selection of equipment. Catalog on request.

Rear of 10 Park Square

SKI-CRAFT

THE OSCAR H. HAMBERG COMPANY
Maker and Importer of Fine Ski-Equipment
17 Carver Street, Boston, Mass.
U.S.A.



LATE MODEL
Tuxedos
To Rent
\$1.50
With Silk Vest

All Suits One Price—Clothing Complete Outfitters

CROSTON & CARR CO
72 Summer Street, Boston

SPORTS COMMENT

The jayvee and freshman basketball teams did not fare as well against their week-end opponents as the varsity did against the Alumni. The jayvees, playing their first game last Friday, met defeat at the hands of the Crimson jayvees by the score of 27-13. The Engineers made a good showing against the Harvard team, for the latter is not very much inferior to the Harvard varsity, and has a large number of men on the squad. John Demo played an excellent game at guard for the Engineers, while Red Schneck, entering after the half, also did well. For Harvard the star was Kollinitis, a guard who was the high scorer of the game.

The freshmen lost to an older and more experienced Farmington Normal team by the score of 40-18. At the first of the game, which was played last Saturday in Walker Gym, the freshmen held their own, but toward the end of the first half, the Maine team began to get used to the floor, and to run up the score. From then on they showed a decisive superiority over the Engineers, as the final score gives evidence. Gay and Thomson were the outstanding players for the freshmen. All the players on the Farmington team were older and had plenty of practical experience in the sport, one of them having played for several years on the Bar Harbor Black-hawks, one of the better amateur teams in Maine.

Captain Fred Vaughan certainly deserves to be congratulated for his splendid work on the swimming team in its recent meet with Bowdoin. Also the work of Cleon Dodge in the freshman meet with Harvard is worthy of mention. Dodge's times in the events in which he was entered were considerably better than those of the winners in the corresponding varsity events with Bowdoin, and serve to illustrate how valuable he should prove to be to the team next year. Dodge was responsible for the major portion of his team's points, taking two firsts and being the anchor man on the winning freshman relay quartet.

INFIRMARY LIST

Edwin A. Boyan, '36
James J. Chapman, Jr., G
Robert L. Emerson,
Research Associate
Eleanor K. Harper, '34
Henry J. Janson, '36
Charles S. Symond, '35

Brooks Hospital
Harold T. Smythe, G

Bosworth Hospital
George Short, Employee

GEORGE'S

Wishes You
A Merry Christmas

Large Selection of A. C. and D. C.

RADIOS

Atwater Kent, Philco, Sparton, Emerson, Zenith and Other Nationally Known Sets, Ranging in Price from

\$11.95 UP

Large Variety of Electrical Appliances suitable for Christmas gifts.

GEORGE'S Inc.

171A MASS. AVENUE

WE'LL COLLECT YOUR BAGGAGE

—take it home...and bring it back again

Here is a simple time-saving suggestion that will eliminate a lot of unnecessary trouble and worry for you. Send all your baggage, trunks and personal belongings home by Railway Express.

Wherever you may live, if it is within regular vehicle limits, Railway Express will call for your trunks and bags and speed them away on fast passenger trains through to destination. You'll be surprised how easy it is and how quickly your trunks will be home. Thousands of fellows—boys and girls, too—have found Railway

Express service an economy not to be sneezed at.

Then, after the holidays, send your baggage back the same way and Railway Express will handle it swiftly, safely and promptly direct to your fraternity house or other residence.

Railway Express has served your Alma Mater for many years. It provides fast, dependable service everywhere. For rates and all necessary labels, merely telephone the local Railway Express office.

SERVING THE NATION FOR 94 YEARS

RAILWAY EXPRESS

AGENCY, Inc.

NATION-WIDE SERVICE

CALENDAR

Tuesday, December 19

5:00—Banjo Club Rehearsal, East Lounge, Walker Memorial.
 5:00—Association of General Contractors Dinner, Faculty Dining Room, Walker Memorial.
 6:30—Burton Dinner Club Dinner, East Lounge, Walker Memorial.
 6:30—Episcopal Students Club Dinner, West Balcony, Walker Memorial.
 7:00—Tech Show Rehearsal, Walker Gym.
 7:00—Graduate Dance Band Rehearsal, East Lounge, Walker Memorial.
 7:15—Sigma Chi Fraternity Basketball Practice, Hangar Gym.

Wednesday, December 20

5:00—Aristocrats Rehearsal, East Lounge, Walker Memorial.
 5:00—Unity Club Meeting, West Lounge, Walker Memorial.
 5:00—Graduate Hall Dinner Club Dinner, North Hall, Walker Memorial.
 6:00—Class of 1900 Dinner, Faculty Dining Room, Walker Memorial.

Thursday, December 21

3:00—Theoretical Seminar, Lecture Room of George Eastman Laboratories.
 5:00—Physical Colloquium, Lecture Room of George Eastman Laboratories.
 5:00—Banjo Club Rehearsal, East Lounge, Walker Memorial.
 5:00—The Plant Engineers Club Dinner, Faculty Dining Room, Walker Memorial.
 6:00—Ordnance Reserve Officers Dinner, Faculty Dining Room, Walker Memorial.

CHRISTMAS DANCE
COLORFUL AFFAIRFeature George A. Peterson of
M. I. T. Orchestra

Colored lights playing on the multitude of cotton snow balls hung from the ceiling of the Main Hall of Walker Memorial, the Musical Clubs Dance proved a greater success than was anticipated. The dance, with music by Don Paul's Orchestra of the Yankee Network, followed a varied program presented by the Banjo Club, Glee Club, and the M. I. T. Orchestra. The colonnades were decorated with Christmas trees lighted by multi-colored lamps.

This year's concert set a precedent by featuring a member of the club as violin soloist, George Peterson, '35, of the M. I. T. Orchestra. In addition, Merton S. Neill, '34, presented a xylophone number, accompanied by William Weston at the piano.

The Banjo Club gave a commendable presentation of several classical numbers, followed by a series of rollicking sea songs given by the Glee Club. After the xylophone solo by Neill, the M. I. T. Orchestra rendered "Finlandia" by Sibelius, and the "Lost Chord" by Sullivan. The Glee Club concluded the program with the "Stein Song" and "Take Me Back to Tech."

BOAT CLUB HAS
TREASURE HUNTHolds Dance at Boat House for
First Time

Holding a social affair for the first time in the Boat House, the Boat Club staged a treasure hunt last Saturday night followed by a dance.

The hunt, starting at 8:30 o'clock from the Boat House, sent the contestants to distant parts of Boston and Cambridge in search of a treasure consisting of four silver dollars. The winners of the prize were Lucius E. Packard, '35; Richard M. Whitmore, '35; and their guests.

Dance to Recordings
 After the hunt the participants again gathered at the Boat House where dancing to recordings and radio followed. In preparation for the party the rowing machines were removed, and the floor was prepared with a heavy coat of wax for dancing. Heat was provided by the burning of broken oars in the fireplace.

During the process of the dancing refreshments consisting of loaves of bread, a bologna, crackers, cream cheese, salads, and punch were available for those who desired to serve themselves.

NEW PROLIFIC SOURCE
OF PROTONS DISCOVERED

(Continued from Page 3)

Dr. Lamar has worked extensively with electric arcs and the phenomena which occur when ions come in contact with electrodes, whereas Dr. Luhr, who came to the Institute from the University of California, has devoted himself to a study of the different types of ions produced by electrical action in gases, identifying the individual ions by the degree to which their paths are bent by magnetic fields. It was a combination of these two techniques which made possible the proof of the effectiveness of the new proton source.

Every male senior at the University of California must undergo two weeks of football training, one week in the line and one week in the backfield.—*The Polytechnic Reporter.*

T. E. N. SPINNING COIN EXPLAINED
CORRECTLY BY ONLY TWO STUDENTS

Backenstoss Gives Best Answer
 Out of More Than Fifty
 Reasons Given by Institute
 Men; Awarded Subscription

Only two answers, out of more than fifty, correctly explained why the spinning coin in the Tech Engineering News exhibit in the main lobby last week, continued to rotate in spite of no apparent external forces. Out of these, that of Henry B. Backenstoss, '34, was judged most direct. His answer was: "A rotating magnetic field exists around the coin. As this field rotates, the change in magnetic flux tends to cause eddy currents within the coin. These currents, however, cause a magnetic field of their own which attempts to line up with the external field. But the external field is rotating so the coin also tends to rotate."

In the exhibit, a large watchglass convex side down is supported upon three pillars. On the glass, a light coin is spinning quite rapidly. Under the base are the magnets which pro-

duce the rotating flux. As the flux penetrates the glass, no apparent force exists to give the audience a clue.

Many Queer Solutions

In spite of this, many persons imagined motion of the glass, or a hole in it through which a wind blew to spin the coin. "Upward swirling of hot air currents heated by coil underneath mirror," read one, "cause the light coin to spin." Another reads, "The watch glass is vibrating very rapidly and causes the coin to spin. The coin must first be started."

But the most law-defying allows the coin to spin on its inertia. "Friction between the glass disk and metal cylinder is small. Center of gravity on metal cylinder to one side of geometric center. Given a spin, it will continue to spin on its own inertia."

Next month, the T. E. N. promises to provide another mystifying exhibit. Many of the answers to last week's contest were only approximately correct in that they describe the means of producing the phenomenon rather than the phenomenon itself.

Poole Is Elected
Wrestling LeaderVarsity and Freshmen Beaten
by Harvard Grapplers
in First Meet

Both the varsity and the freshmen wrestlers were defeated Saturday afternoon against the Harvard grapplers, the varsity losing by a 21 to 11 score and the freshmen gleaming ten points against the Harvard plebe's twenty-six. Although the M. I. T. fighters showed up fairly well in their first meet, they were at a disadvantage in that they lacked the experience and rigid training of the Harvard men. Only three falls were scored by the home teams against eight falls by their opponents. Frank Poole, '34, of Hingham, wrestling in the 165-pound class, was elected captain of the varsity team Friday night. This is his third varsity season.

The results of the varsity matches are as follows:

118 lb., Clark (T) defeated Keeler (H), 4:20 min. adv.
 126 lb., Frankel (H) defeated Marderosian (T), 1:14 min. adv.
 135 lb., McGonaghan (H) defeated Shepherd (T), fall 5:20 min.
 145 lb., Boyan (T) defeated Farley (H), 5:35 min. adv.
 155 lb., Isbister (T) defeated Kimball (H), fall 9:06 min.
 165 lb., Emory (H) defeated Poole (T), 7:41 min. adv.
 175 lb., Ames (H) defeated Friedman (T), fall 2:40 min.
 Heavy, Barrows (H) defeated Graham (T), 44 sec. fall.

The results of the freshman bouts are as follows:

118 lb., Petrenik (H) defeated Noodelman (T), by referee's decision.
 126 lb., Bartholemew (T) defeated O'Keefe (H), fall 2:26 min.
 135 lb., Draper (H) defeated Testa (T), 9:35 min. adv.; 145 lb., Cavin (H) defeated Webb (T), fall 6:45 min.
 155 lb., Woodman (H) defeated Heal (T), fall 3:40 min.
 165 lb., Armstrong (H) defeated Rindlet (T), fall 3:05 min.
 175 lb., Hopfheimer (H) defeated Marsh (T), fall 2:21 min.
 Heavy, Costoni (T) defeated Gresham (H), fall 3:22 min.

A. G. C. TO HEAR
TALK BY COMPTONB. L. Knowles Will Describe
NRA Building Codes

The general phases of building construction with respect to the viewpoint of layman and the scientist will be the subject of an address by President Karl T. Compton at the first dinner meeting of the Technology chapter of the Associated General Contractors of America in Walker tonight. The meeting will be held in the Faculty dining hall at 6:00 o'clock.

"Construction Industry Codes" under the N. R. A. will be the topic of a talk by Mr. B. L. Knowles of the Ward Construction Company of Worcester. Mr. Knowles has been a prominent member of the committee at Washington which is formulating N. R. A. codes for the building industry. He is a guest from the national society.

Mr. J. C. Watson, president of the Aberthaw Company of Boston, builders of the new Christian Science Publishing Society Building, is also a guest from the national society.

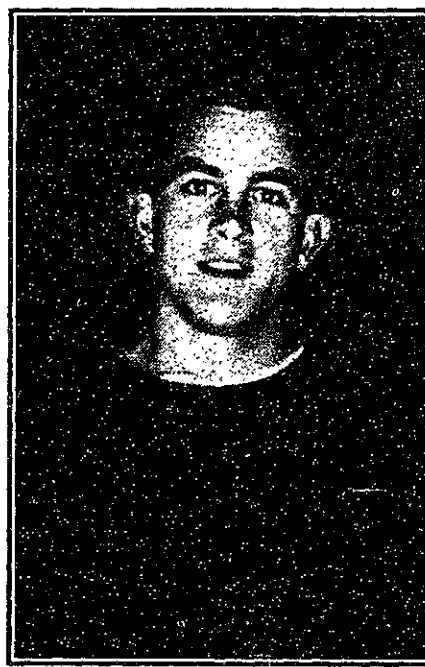
In addition to Dr. Compton, guests from the Institute will include Vice President Vannevar Bush, who will address the gathering, Professor Charles B. Breed, head of the Civil Engineering Department, and members of the staff of the Building Construction Department.

Although the Technology chapter of the A. G. C. is the Professional Society of Course XVII, members of allied courses are invited to attend.

HERE'S YOUR CAR!

Take your choice from a fleet of fine new cars. Low rates. 24-hour service. No deposit required. For reservation, phone
 COMMONWEALTH 5700.
 U-DRYVIT AUTO RENTAL CO. Inc.
 6 BELVIDERE ST., BOSTON
 Tech Station: 15 HAYWARD ST.
 (Near Kendall Square)

READ & WHITE

Distinctive
Dress Clothes
for Rental111 SUMMER ST.
BOSTONWoolworth
Building
Providence,
R. I.Elected Captain
of Wrestling Team

FRANK POOLE, '34

Freshmen-Juniors
Take Track MeetTriumph Over Soph-Senior
Team in Handicap Races
on Board Track

Prospects for the winter track season look excellent, according to Oscar Hedlund, after holding a meet here last Saturday. Over one hundred men competed as the combined freshman-Junior team defeated the Sophomore-Senior team by the score of 57½ to 37½. Coach Hedlund stated that he was very much pleased with the results and with the number of men that turned out.

The feature of the meet was the triumph of Richard Jarrell, '35, over Melvin Sousa, '34, in the 440 yard dash. After running neck-and-neck throughout the race, Jarrell went into the last turn wide and came off the incline fast to edge out Sousa by a scant few inches.

Mann Wins Half Mile Run

Bob Mann, cross-country captain, returned after a long period of illness to coast to the tape with a comfortable margin over Eugene Cooper, in the half-mile run. Morton Jenkins had little trouble in besting the field in the three-quarter mile event, in which Henry Guerke of the freshman class finished second.

Harold Dixon, '35, and Gordon Donnan, '36, tied for first place with the good clearance of 11 feet 6 inches in the pole vault. William Ingles, another excellent freshman prospect, topped the entire field in the broad jump. Tom Brown, '36, was the high scorer of the meet with nine points after taking a first in the shotput and a second in the broad jump. Harold Dixon was a close second with eight and one-half points by virtue of a second in the shotput and a tie for first in the pole vault.

Walton Lunch Co.

Morning, Noon and Night
 You will find All Tech at
 78 Massachusetts Avenue
 CAMBRIDGE

QUICK SERVICE
 APPETIZING FOOD
 POPULAR PRICES

Quality First Always
 THAT'S
 WALTON'S

1080 Boylston Street
 Convenient to Fraternity Men

GRIDIRON CLUB
ELECTS MEMBERS

The following men were elected members of the Gridiron Club at a dinner meeting last Friday evening: Abraham K. Chakmakian, '35, John H. Howells, Jr., '35, Walter J. Byrne, '35, Bernard H. Nelson, '35, Lewis M. Sherman, '35, Carl H. Acherkirchen, '35, Wilfred R. Grosser, '35, and Zay B. Curtis, '35.

UNDERGRADUATE NOTICE

The T. C. A. office will be open during the Christmas vacation from nine o'clock until four o'clock every day except December 23rd, 25th, 30th, and January 1st.

The Parenthesis Club, unique organization at the State Teachers College in Trenton, N. J., is only open to bow-legged men.—*The Concoctiensis.*

LOUIS LERNER

"Famous RKO Dancing Star"
 Creator of the "400," "Havana Drag,"
 "Paradise" Waltz
 NOW TEACHING PERSONALLY
 Modern and Stage Dancing

Taught Quickly—"New Lerner System"
 \$1 PRIVATE LESSONS ANY TIME
 10 A.M. to 11 P.M.
 Ballroom Classes Every Evening
 9 to 12—25 Expert Lady and Men
 Teachers. Orch.
LERNER'S
 335 Mass. Ave. (at Hunt.) Tel. Circle 9248

EVERY
BANKING
FACILITYKENDALL SQUARE
OFFICE

HARVARD
TRUST
COMPANY

PREFERRED
by TECH

And by Harvard, Yale and the rest. If they're from leading colleges, you'll most likely find them at The New Weston. Location in the fashionable center (near clubs, smart shops and theatres) is one reason; another, the comfortable good taste of quiet rooms. To say nothing of French cuisine, the jolly English Cocktail Room, reasonable rates and week-end discounts to undergraduates who present this advt.

HOTEL
NEW WESTON

Madison Ave. & 50th St.
 New York

Headquarters of Smith and Vassar Clubs

PARK BURLESQUE

"BARBARA TRIMS FROM SEVILLE"

with
 MARY JANE — LOUISE HUFF
 HILDA PALMER — JACQUES WILSON
 and 60 others

TWO CONTINUOUS SHOWS—9:30 A.M. to 5 P.M.
 25c AND 35c TILL NOON
 EVES, 8:30—ALL SEATS RESERVED—35c to \$1.10

Midnite Shows Fridays—Big Midnite Special New Year's Eve